

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Selected official specification and wiring pages

SIEMENS SIMATIC

6ES7288-5AQ01-0AA0

S7-200 SMART SB AQ01 ANALOG OUTPUT SIGNAL BOARD

The following original Siemens pages contain the model-specific specifications, interface details, and wiring information with original pagination retained.

REFERENCE PACKAGE

SIMATIC S7-200 SMART System Manual V2.8, 08/2023

OFFICIAL DOCUMENT

[A5E03822230-AL](#)

SIMATIC

S7 S7-200 SMART

System Manual

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A.7.2 SB AQ01 analog output specifications

Table A-146 General specifications

Technical data	SB Analog 1 x Output (SB AQ01)
Article number	6ES7288-5AQ01-0AA0
Dimensions W x H x D (mm)	35 x 52.2 x 16
Weight	17.4 grams
Power dissipation	1.5 W
Current consumption (5 V DC)	15 mA
Current consumption (24 V DC)	40 mA (no load)

Table A-147 Analog outputs

Technical data	SB Analog 1 x Output (SB AQ01)
Number of outputs	1
Type	Voltage or current
Range	± 10 V, 0 to 20 mA
Resolution	Voltage: 11 bits + sign Current: 11 bits
Full scale range (data word) Refer to the output ranges for voltage and current.	-27,648 to 27,648 (-10 V to 10 V) 0 to 27,648 (0 to 20 mA)
Accuracy (25 °C / -20 to 60 °C)	$\pm 0.5\%$ / $\pm 1\%$
Settling time (95% of new value)	Voltage: 300 μ s (R), 750 μ s (1 μ F) Current: 600 μ s (1mH), 2 ms (10 mH)
Load impedance	Voltage: ≥ 1000 ohms Current: ≤ 600 ohms
Output behavior in STOP	Last value, substitute value (default value 0)
Isolation (field side to logic)	None
Cable length (max.), in meters	10 m twisted and shielded

Table A-148 Diagnostics

Technical data	SB Analog 1 x Output (SB AQ01)
Overflow/underflow	Yes
Short to ground (voltage mode only)	Yes
Wire break (current mode only)	Yes

Table A-149 Wiring diagram for the SB AQ01 Analog 1 x Output (6ES7288-5AQ01-0AA0)

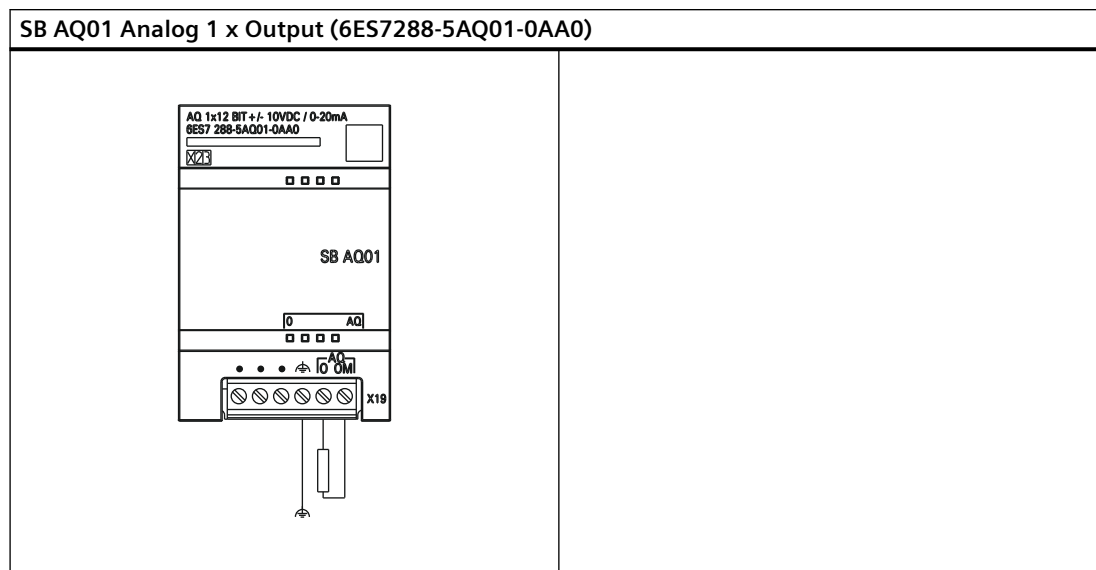


Table A-150 Connector pin locations for SB AQ01 Analog 1 x Output (6ES7288-5AQ01-0AA0)

Pin	X19
1	No connection
2	No connection
3	No connection
4	Functional Earth
5	AQ 0
6	AQ 0M

A.8 RS485/RS232 signal boards

A.8.1 SB RS485/RS232 specifications

Table A-151 General specifications

Technical data	SB RS485/RS232
Article number	6ES7288-5CM01-0AA0
Dimensions W x H x D (mm)	35 x 52.2 x 16
Weight	18.2 grams
Power dissipation	0.5 W
Current consumption (5 V DC)	50 mA
Current consumption (24 V DC)	N/A